Express Mail Label No.: EV813998732US PTO/SB/08a/b (07-05)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

C.O. I Licht and Trabellian Office, C.O. Del Faction Co.	,,,,,,,,
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB con	trol number.

Sub	stitute for form 1449A/B/	Substitute for form 1449A/B/PTO			Complete if Known		
				Application Number	10/575,182-Conf. #3490		
11	NFORMATIO	N DISC	LOSURE	U.S. Filing Date	April 7, 2006		
S	TATEMENT	BY AP	PLICANT	First Named Inventor	John T. Butters		
				Art Unit	2862		
	(Use as many sheets as necessary)		Examiner Name	Not Yet Assigned			
Sheet	1	of	5	Attorney Docket Number	385478008US2		

			U.S. PA	TENT DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/KJW/		US-2004-0222789-A1	11-11-2004	Pinsky et al.	
8		US-2005-0176391-A1			
		US-4,031,462		Bouvier et al.	
		US-4,095,168	06-13-1978		
		US-4,365,303	12-21-1982	Hannah et al.	
		US-4,682,027	07-21-1987		
		US-4,692,685	09-08-1987	Blaze	
8		US-4,751,515	06-14-1988	Corum	-
8		US-4,822,169	04-18-1989	Distl et al.	
8		US-5,254,950	10-19-1993	Fan et al.	
8		US-5,305,751	04-26-1994	Chopp et al.	
8		US-5,339,811	08-23-1994		
8		US-5,343,147	08-30-1994		
		US-5,446,681		Gethner et al.	
		US-5,458,142		Farmer et al.	
8		US-5,465,049		Matsuura et al.	
		US-5,508,203	04-16-1996		· ·
		US-5,541,413	07-30-1996	Pearson et al.	
		US-5,574,369	11-12-1996		
		US-5,583,432	12-10-1996		
		US-5,656,937	08-12-1997		
	 	US-5,696,691	12-09-1997		-
		US-5,734,353	03-31-1998	The state of the s	
 		US-5,752,514	05-19-1998		
		US-5,789,961	08-04-1998		-
-		US-5,944,782	08-31-1999		
 		US-5,952,978		VanVoorhies	
 		US-5,955,400	09-21-1999		
		US-5,959,548	09-28-1999		
-		US-6,020,782	02-01-2000		
 		US-6,028,558		Van Voorhies	* * *
 		US-6,084,399		Nagaishi et al.	
-		US-6,136,541	10-24-2000		
 	 	US-6,142,681	11-07-2000		
 	 	US-6,150,812		Pinsky et al.	
 	 	US-6.159.444	12-12-2000		
-	 	US-6,196,057	03-06-2001	Discenzo	
 		US-6,204,821		Van Voorhies	
 	 	US-6,285,249	09-04-2001	Bulsara et al.	
\ // /	 	US-6,294,911	09-25-2001	Shimazawa et al.	
	 	US-6,320,369		Hidaka et al.	
<u> </u>	<u> </u>	100-0,020,000	111-20-2001	I nadya et al.	

Examiner /Kenneth Whittington/	Date	02/26/2008
Signature	Considered	52,20,20

Express Mail Label No.: EV813998732US PTO/SB/08a/b (07-05)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Substit	tute for form 1449A/B/	РТО			Complete if Known		
					Application Number 10/575,182-Conf. #3490		
INFORMATION DISCLOSURE				U.S. Filing Date	April 7, 20	006	
STATEMENT BY APPLICANT			Γ	First Named Inventor	John T. B	utters	
01/(12M2K)				Art Unit	2862	-	
	(Use as many sheets as necessary)			Examiner Name	Not Yet A	ssigned	
Sheet	2	of	5		Attorney Docket Number	38547800	98US2
/KJW/	US-6,323,	632	11-27-2001	Husl	her et al.		
8	US-6,541,		04-01-2003	Jaco	ues Benveniste		
	US-6,665,	553	12-16-2003	Kan	dori et al.		
	US-6,724,	188	10-02-2003	Butte	ers		
	US-6,760,	674-A1	07-06-2004	Bom	bard	-	
-	US-6,815,	949-A1	11-09-2004	Kan	dori et al.		
	US-6,885,	192-A1	04-26-2005	Clar	ke et al.		
000	US-6,952,	652-A1	10-04-2005	Butte	ers		
11/	US-6,995,	558-A1	02-07-2006	Butte	ers et al.		
	US-7,081,	747-R2	07-25-2006	Butte	ers et al.		

		FOREIG	SN PATENT	DOCUMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (<i>ff known</i>)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
/KJW/		DE-1815674	07-24-1969	Atomic Energy Commission		
		EP-0060392 A2	09-22-1982	Sodeco Compteurs De Geneve		
2222222		WO-87-02981 A1	05-21-1987	Centre National De La Recherche Scientifique		
8		WO-91-13611 A1	09-19-1991	Inst Nat Sante Rech Med		
		WO-91-14181 A1	09-19-1991	Inst Nat Sante Rech med		
		WO-94-17406 A1	08-04-1994	Benveniste		
		WO-99-54731 A1	10-28-1999	Digibio		
ı i		WO-00-01412 A1	01-13-2000	Digibio		
800		WO-00-17637 A1	03-30-2000	Digibio		
		WO-00-17638 A1	03-30-2000	Digibio	,	
900		WO-03-102566 A2	12-11-2003	WavBank, Inc.		
		WO-03-83439 A2	10-09-2003	WavBank, Inc.		
W		WO-05-036131 A2	04-21-2005	WavBank, Inc.		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * CITE NO.: Those application(s) which are marked with an single asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Examiner Kenneth Whittington/ Date Considered 02/26/2008				
Signature Considered	Examiner	/Kenneth Whittington/	Date	02/26/2008
	Signature	Tronnour Frinangon		2 m 21 m 2 2 2

Express Mail Label No.: EV813998732US
PTO/SB/08a/b (07-05)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Sub	stitute for form 1449A/B/PT	О		Complete If Known		
				Application Number	10/575,182-Conf. #3490	
IN	IFORMATION	1 DI	SCLOSURE	U.S. Filing Date	April 7, 2006	
S	TATEMENT E	3Y /	APPLICANT	First Named Inventor	John T. Butters	
				Art Unit	2862	
(Use as many sheets as necessary)		Examiner Name	Not Yet Assigned			
Sheet	3	of	5	Attorney Docket Number	385478008US2	

		NON PATENT LITERATURE DOCUMENTS							
xaminer nitials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T						
/KJW/		"Direct Nanoscale Conversion of Bio-Molecular Signals Into Electronic Information," DARPA Defense Sciences Office, 2 pages, http://www.darpa.mil/dso/thrust/biosci/moldice.htm.							
888		"Engineered Bio-Molecular Nano-Devices/Systems (MOLDICE)," DARPA Defense Sciences							
-		Office, 1 page, http://www.darpa.mil/dso/thrust/biosci/moldice.htm.							
2000000		"The First International Workshop on TFF: What is Biophysies Behind?" Abstract Booklet, June 15, 1996, 18 pages, http://www.biophysics.nl/idras.htm.							
		AISSA et al., "Transatlantic Transfer of Digitized Antigen Signal by Telephone Link," Digi Bio-FASEB 97, Abstract only, http://digibio.com/cgi-bin/node.pl?lg=us&nd=n4 3.							
	-	AISSA et al., "Molecular signaling at high dilution or by means of electronic circuitry," Journal of Immunology, 146A, 1994, Abstract only.							
00000000		ATKINS, P.W., "Rotational and Vibrational Spectra," Physical Chemistry, 1990, Pages 458-497, Oxford University Press, Oxford, UK.							
000000000000000	*****	BENVENISTE et al., "A Simple and Fast Method for in Vivo Demonstration of Electromagnetic Molecular Signaling (EMS) via High Dilution or Computer Recording," FASEB Journal, Volume 13, p. A163, 1999, Abstract only.							
000000000000000000000000000000000000000	.,	BENVENISTE et al., "Digital Biology: Specificity of the Digitized Molecular Signal," FASEB Journal, Volume 12, p. A412, 1998, Abstract only.							
300000000000000000000000000000000000000		BENVENISTE et al., "Specific Remote Detection of Bacteria Using an Electromagnetic/Digital Procedure," FASEB Journal, Volume 13, p. A852, 1999, Abstract only, http://digibio.com/cgibin/node.pl?lg=us&nd=n4 12.							
000000000000000000000000000000000000000		BENVENISTE et al., "The Molecular Signal is not Functional in the Absence of "Informed" Water," FASEB Journal, Volume 13, p. A163, 1999, Abstract only, http://digibio.com/cgibin/node.pl?lg=us&nd=n4_11>.							
000000		BENVENISTE et al., "Digital biology: Specificity of the Digitized Molecular Signal," FASEB Journal, A412, 1997, Abstract only, http://digibio.com/cgi-bin/node.pl?lg=us&nd=n4_2.							
33300000		BENVENISTE et al., "Digital Recording/Transmission of the Cholinergic Signal," DigiBio - FASEB 96, Abstract only, http://digibio.com/cgi-bin/node.pl?lg=us&nd=n4 4.							
000000000		BENVENISTE et al., "Electronic Transmission of the Cholinergic Signal," FASEB Journal, A683, 1995, Abstract only.							
		BENVENISTE et al., "Transfer of Molecular Signals Via Electronic Circuitry," FASEB Journal, A602, 1993, Abstract only.							
000000000000000000000000000000000000000		BENVENISTE, J., "From Water Memory' effects To 'Digital Biology'," Understanding Digital Biology, 4 pages, http://www.digibio.com/cgi-bin/node.pl?nd=n3, June 14, 1998.							
BENVENISTE, J., "Molecular Signaling, What is so unacceptable for ultra-orthodox scientists?" 2 pages, http://www.digibio.com/cgi-bin/node.pl?nd=n5.									
		BENVENISTE, J. et al., "Transfer of the Molecular Signal by Electronic Amplification," FASEB Journal, A398, 1994, Abstract only.							
		BINHI, V., "An analytical survey of theoretical studies in the Area of magnetoreception," 11 pages, 1999, http://www.biomag.info/survey.htm.							
V		BRAULT, J. et al., "The Analysis and Restoration of Astronomical Data via the Fast Fourier Transform," Astronomy and Astrophysics, Volume 13, No. 2, July 1971, pp 169-189.							
xaminer Signature	/Ker	nneth Whittington/ Date 02/26/2008	=						

Express Mail Label No.: EV813998732US
PTO/SB/08a/b (07-05)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Sub	estitute for form 1449A/B/PT	0		Complete if Known		
				Application Number	10/575,182-Conf. #3490	
IN	NFORMATION	I DI	SCLOSURE	U.S. Filing Date	April 7, 2006	
S	TATEMENT E	3Y /	APPLICANT	First Named Inventor	John T. Butters	
				Art Unit	2862	
(Use as many sheets as necessary)		Examiner Name	Not Yet Assigned			
Sheet	4	of	5	Attorney Docket Number	385478008US2	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
/KJW/		BRIGHAM, E., "The Fast Fourier Transform and Applications," Prentice Hall, 1988, pp 131-145.	
		CHAPEAU-BLONDEAU, F., "Input-output gains for signal in noise in stochastic resonance," Physics Letters A, Vol. 232, pp. 41-48, July 21, 1997, Elsevier Science B.V.	
000000000000000000000000000000000000000		CHAPEAU-BLONDEAU, F., "Periodic and Aperiodic Stochastic Resonance with Output Signal-to-Noise Ratio Exceeding That At The Input," International Journal of Bifurcation and Chaos, Vol. 9, No. 1, pp. 267-272, 1999, World Scientific Publishing Company.	
		COOLEY, J. et al., "An Algorithm for the Machine Calculation of Complex Fourier Series," Mathematics of Computation, April 1965, pp. 297-301, Vol. 19, No. 90, American Mathematical Society, Providence, Rhode Island.	
000000		DigiBio S.A., Experimental models, "From Water Memory' effects to "Digital Biology," Biological Systems, http://digibio.com/cgi-bin/node.pl?nd=n7.	
0000000		DUHAMEL, P., et al., "Split Radix' FFT Algorithm," Electronics Letters, The Institution of Electrical Engineers, Volume 20, No. 1, January 5, 1984, pp. 14-16.	
000000000000000000000000000000000000000		GLANZ, J., "Sharpening the Senses With Neural 'Noise'," Science, Volume 277, No. 5333, September 19, 1997, 2 pages,	
000		http://complex.gmu.edu/neural/papers/others/science97_noise.html. GORGUN, S., "Studies on the Interaction Between Electromagnetic Fields and Living Matter Neoplastic Cellular Culture," 22 pages, http://bodyvibes.com/study1.htm.	
00000		HOFFMAN, F., "An Introduction to Fourier Theory," 10 pages, http://aurora.phys.utk.edu/~forrest/papers/fourier/index.html.	
***************************************		INGRAM, D.J.E., "Spectroscopy at Radio and Microwave Frequencies," 1967, Pages 1-16, Butterworths, London, UK.	
		International Search Report for International Application No. PCT/US03/11834; Mailed on 10/09/2003; Applicant: WavBank, Inc.	
0,000,000,000		KAUFMAN, I. et al., "Zero-dispersion stochastic resonance in a model for a superconducting quantum interference device," Physical Review E, Vol. 57, No. 1, pp. 78-87, January 1998, The American Physical Society.	
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>		NEUHAUSER, R., "Hydrogenlike Rydberg Electrons Orbiting Molecular Clusters," Physical Review Letters, June 8, 1998, Pages 5089-5092, Vol. 80, No. 23, The American Physical Society, USA.	!
000000000000000000000000000000000000000		NOKAZI, D. et al., "Effects of Colored Noise on Stochastic Resonance in Sensory Neurons," Physical Review Letters, The American Physical Society, Volume 82, No. 11, March 15, 1999, 4 pages.	
		OPPENHEIM et al., "Digital Signal Processing," Prentice-Hall, 1975, ISBN 0-13-214635-5, pp. 87-121.	
		PROAKIS et al., "Advanced digital signal processing," Maxwell MacMillan, 1992, pp 31-57.	
**************************************		SOMA, R., "Noise Outperforms White Noise in Sensitizing Baroreflex Function in the Human Brain," Physical Review Letters, Vol. 91, No. 7, 4 pages, August 15 2003, The American Physical Society.	
V		THOMAS, et al., "Direct Transmission to Cells of a Molecular Signal Via an Electronic Device," FASEB Journal, A227, 1995, Abstract only.	-

Examiner	/Kenneth Whittington/	Date	02/26/2008
Signature	/remedit windington/	Considered	<i>VE/E0/E000</i>

	Under the Paperwork	Reductic	on Act of 1995, no persons are r	U.S. Patent and T	Express Mail Label No. EV813998732US PTO/SB/08a/b (07-05) oved for use through 07/31/2006. OMB 0651-0031 rademark Office; U.S. DEPARTMENT OF COMMERCE to of information unless it contains a valid OMB control number.
Substitute for form 1449A/B/PTO				Complete if Known	
				Application Number	10/575,182-Conf. #3490
IN	IFORMATION	N DI	SCLOSURE	U.S. Filing Date	April 7, 2006
S	TATEMENT	BY A	APPLICANT	First Named Inventor	John T. Butters
				Art Unit	2862
	(Use as many sh	ieets as	s necessary)	Examiner Name	Not Yet Assigned
Sheet	5	of	5	Attorney Docket Number	385478008US2

	NON PATENT LITERATURE DOCUMENTS						
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²				
/KJW/		THOMAS et al., "Modulation of Human Neutrophil Activation by "Electronic" Phorbol Myristate Acetate (PMA)," DigiBio, Abstract only, http://www.digibio.com/cgibin/node.pl?lg=us&nd=n4_5.					
/KJW/		THOMAS, Y., et al., "Activation of human neurophils by electronically transmitted phorbolmyristate acetate," Medical Hypotheses, Volume 54, No 1, pp 33-39.					
/KJW/		TURIN, L., "A spectroscopic mechanism for primary olfactory reception," Chemical Senses, Volume 21, No. 6, pp. 773-791.					
/KJW/	,	WEAVER, J., et al., "The response of living cells to very weak electric fields: the thermal noise limit," National Library of Medicine, 2 pages, March 2 1990, http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=PubMed&cmd=Retrieve&list_uids=2300806 &dopt=Citation.					

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

	Examiner /K	Cenneth Whittington/	Date Considered 02/26/2008
--	-------------	----------------------	-------------------------------

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.